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The Republic of Moldova, traditionally producing fruits such as apples, plums, apricots, cherries, faces an increasing demand for new crops with superior traits. Kiwifruit (Actinidia chinensisPlanch.) shows high potential for local adaptation and productivity. This study combined in vitromicropropagation with bioecological evaluation to assess its suitability. Complementary bioecological analyses confirmed that local pedoclimatic conditions favor the growth and development of Actinidia. These results provide a framework for the sustainable cultivation of kiwifruit in Moldova.